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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | see Notification o | f Transmittal of Intern | ational Search Report applicable, item 5 below. | | | |
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| RLL-318WO | ACTION | (FUIII PC 1/15A/2/ | 20) as well as, where | applicable, item 5 below. | | | |
| tnternational application No. | International filing date (day/month/year) (Earliest) Priority Date | | ate (day/month/year) | | | | |
| PCT/IB 03/05614 | 16/12/ | 2003 | | 1000 | | | |
| Applicant | | | | . | | | |
| RANBAXY LABORATORIES LIMI | ΓED | | | | | | |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this Internatio ansmitted to the Internationa | nal Searching Auth I Bureau. | ority and is transmitte | ed to the applicant | | | |
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| This International Search Report consists X It is also accompanied by | of a total of4 a copy of each prior art doc | sheets. ument cited in this | report. | | | | |
| Basis of the report | | | | | | | |
| With regard to the language, the language in which it was filed, unl | | | is of the international | application in the | | | |
| the international search w Authority (Rule 23.1(b)). | ras carried out on the basis o | of a translation of th | ne international applic | ation furnished to this | | | |
| b. With regard to any nucleotide an was carried out on the basis of the | | disclosed in the int | ternational applicatior | n, the international search | | | |
| | onal application in written for | | | | | | |
| | ernational application in comp | | 1. | | | | |
| | o this Authority in written form o this Authority in computer re | | | | | | |
| the statement that the sub | sequently furnished written | | oes not go beyond the | e disclosure in the | | | |
| | international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished | | | | | | |
| 2. X Certain claims were fou | nd unsearchable (See Box | 1). | | | | | |
| 3. Unity of invention is lac | Unity of invention is lacking (see Box II). | | | | | | |
| 4. With regard to the title, | | | | | | | |
| X the text is approved as su | bmitted by the applicant. | | | | | | |
| the text has been establis | hed by this Authority to read | as follows: | | | | | |
| | | | | | | | |
| 5. With regard to the abstract, | | | | | | | |
| X the text is approved as su | • • • | | | | | | |
| the text has been establis within one month from the | hed, according to Rule 38.2 date of mailing of this intern | b), by this Authorit ational search rep | y as it appears in Box ort, submit comments | till. The applicant may, to this Authority. | | | |
| 6. The figure of the drawings to be publ | ished with the abstract is Fig | ure No. | | | | | |
| as suggested by the appli | cant. | | X | None of the figures. | | | |
| because the applicant fail | ed to suggest a figure. | | | | | | |
| because this figure better | characterizes the invention. | | | | | | |

INTERNATIONAL SEARCH REPORT

onal Application No

| | | | / 10 0 | 7/ 05014 |
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| According to | o International Patent Classification (IPC) or to both national classif | ication and IPC | | |
| | SEARCHED | | | |
| Minimum do IPC 7 | ocumentation searched (classification system followed by classifical ${\tt C07D-A61P}$ \cdot | ition symbols) | | |
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| EPO-In | ternal, PAJ, WPI Data | | | |
| C. DOCUME | ENTS CONSIDERED TO BE RELEVANT | | | |
| Category ° | Citation of document, with indication, where appropriate, of the re | elevant passages | | Relevant to daim No. |
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| which is | nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another | | e step when the doo | cument is taken alone |
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| Name and m | nailing address of the ISA | Authorized officer | | - |
| | European Patent Office, P.B. 5818 Patentlaan 2 NL ~ 2280 HV Rijswijk Tel (-231-70) 340 - 2040 Tx, 31 551 app pl | | | |
| | Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Schmid, | Α | |

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APPLICANT: EISAI CO LTD;

INVENTOR: HASEBE TAKASHI;

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: C07D401/12 // A61K 31/00 A61K 31/44

TITLE

: CRYSTAL OF SULFOXIDE

DERIVATIVE AND ITS PRODUCTION

I

ABSTRACT :

PROBLEM TO BE SOLVED: To obtain a new crystal of the subject derivative useful as a medicine (an intermediate thereof) such as a gastric acid secretion inhibitor/antiulcerous agent and excellent in pharmaceutical processability and storage stability/ moisture resistance as an original drug or pharmaceutical preparation, by crystallizing the subject derivative so as to have a specific structure.

SOLUTION: This crystal of the subject derivative (salt) is obtained by producing a crystal thereof having a structure of formula I [R1 is H or (difluoro) methoxy; R2 is methyl or methoxy; R3 is 3-methoxypropoxy, methoxy or 2,2,2- trifluoroethoxy; R4 is H or methyl; and B is H, an alkali metal or a 1/2 alkaline earth metal] {e.g. 2-{[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfynyl}-1 H-benzimidazole sodium salt crystal). The crystal of the derivative of formula I (salt) can be produced by, for example, crystallizing an acetone complex of a sulfoxide derivative (salt) of formula II ((n) and (m) are each 1-4) in a lower fatty acid ester.

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